

APPROVED BY DRAFTSMAN	O.G. FIG. CLASS	SUBCLASS
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10 9 2 9 0 " 2 8 2 2 5 2 6 0

5	9	18	27	36	45	54												
	NNG	AAG	GCT	CAG	CAT	ACA	CGT	CGT	TG	GAA	CGT	GGC	AGC	GCC	CCT			
	63		72		81													
	CGA	GCT	CTC	AGT	GAC	CTG	CTG	CAG	CTG	AAC	CGG	AAC	CTC	AAT	CTT	GAC	ATA	
	117		126		135													
	TAT	GTT	ATT	GGT	TTG	CAG	GAA	TTG	AAC	TCT	GGG	ATC	ATA	AGC	CTC	CTT	TCC	GAT
	171		180		189													
	GCT	GCC	TTT	AAT	GAC	TCG	TGG	AGC	AGT	TTC	CTC	ATG	GAT	GTG	CTT	TCC	CCT	CTG
	225		234		243													
	AGC	TTC	ATC	AAG	GTC	TCC	CAT	GTC	CGT	ATG	CAG	GGG	ATC	CTC	CTC	TTA	CTG	TTT
	S	F	I	K	V	S	H	V	R	M	Q	G	I	L	L	V	F	
	279		288		297													
	GCC	AAG	TAT	CAG	CAT	TTG	CCC	TAT	CAG	ATT	TCT	ACT	AAA	TCC	ACC	CCC		
	A	K	Y	Q	H	L	P	Y	I	Q	I	L	S	T	K	S	T	P
	333		342		351													
	ACT	GGC	CTG	TTT	GGG	TAC	TGG	GGG	AAC	AAA	GGT	GGA	GTC	AAC	ATC	TGC	CTG	AAG
	T	G	L	F	G	Y	W	G	N	K	G	V	G	N	I	C	L	K

FIGURE 1A

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100-1234567890 " 1234567890

387	396	405	414	423	432
CTT TAT GGC TAC TAT GTC AGC ATC ATC AAC TGC CAC CTG CCT CCC CAC ATT TCC					
L Y G Y V S I I N C H L P P H I S					
441	450	459	468	477	486
AAC AAT TAC CAG CGG CTG GAG CAC TTT GAC CGG ATC CTG GAG ATG CAG AAT TGT					
N N Y Q R L E H F D R I L E M Q N C					
495	504	513	522	531	540
GAG GGG CGA GAC ATC CCA AAC ATC ATC CTG GAC CAC GAC CTC ATT ATC TGG TTT GGA					
E G R D I P N I L D H D L I I W F G					
549	558	567	576	585	594
GAC ATG AAC TTT CGG ATC GAG GAC TTT GGG TTG CAC TTT GTT CGG GAA TCC ATT					
D M N F R I E D F G L H F V R E S I					
603	612	621	630	639	648
AAA AAT CGG TGC TAC GGT GGC CTG TTG GAG AAG GAC CAG CTC AGC ATT GCC AAG					
K N R C Y G G L W E K D Q L S I A K					
657	666	675	684	693	702
AAA CAT GAC CGG CTC CGG GAG TTC CAG GAG GGC CGC CTA CTC TTC CCG CCC					
K H D P L R E F Q E G R L L F P P					
711	720	729	738	747	756

FIGURE 1B

APPROVED BY DRAFTSMAN	O.G. FIG.	SUBCLASS
	CLASS	

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FIGURE 1C

"U.S. Patent and Trademark Office

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GAC TTC CCC AGC CCG TGG GAC TGG ATT GGA CTG TAC AAG GTG GGG CTG CGG
D F P S S P W D W I G L Y K V G L R
1089 1098 1107 1116 1125 1134
GAC GTT AAT GAC TAC GTG TCC TAT GCC TGG GTC GGG GAC AGC AAG GTC TCC TGC
D V N D Y V S Y A W V G D S K V S C
1143 1152 1161 1170 1179 1188
AGC GAC AAC CTG AAC CAG GTT TAC ATC GAC ATC AGC AAT ATC CCT ACC ACT GAA
S D N L N Q V Y I D I S N I P T T E
1197 1206 1215 1224 1233 1242
GAT GAG TTT CTC CTC TGT TAC TAC AGC AAC AGT CTG CGT TCT GTG GTG GGG ATA
D E F L L C Y Y S N S L R S V V G I
1251 1260 1269 1278 1287 1296
AGC AGA CCC TTC CAG ATC CCG CCT GGC TCC TTG AGG GAG GAC CCA CTG GGT GAA
S R P F Q I P P G S L R E D P L G E
1305 1314 1323 1332 1341 1350
GCA CAG CCA CAG ATC TGA GCC AGG ATG GGA GTG ATC CCC AGG CGG AGG CCA GAG
A Q P Q I
1359 1368 1377 1386 1395 1404
CTG GCA GCC AGC TCT GCC TTT CCA CTG CCG GGA GTG CTG GGG GCC CAG CCT GGC

FIGURE 1D

APPROVED BY CRAFTSMAN	O.G. FIG. CLASS	SUBCLASS
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109250 " 28226360

1413	1422	1431	1440	1449	1458												
CCC	CTG	AAG	CAG	CCA	AGT	GTC	CAC	ATA	CTC	CTC	CCA	GAG	TGA	GCT	CTA		
1467	1476	1485	1494	1503	1512												
ACC	AGG	CTC	ATT	TGC	TCT	CTC	CAC	TAC	TCA	TCT	CTG	GAA	TTA	GCC	GCT	TAA	ATA
1521	1530	1539	1548	1557	1566												
CAG	GTT	TCT	GCT	GAG	ATG	TGA	GTG	AAA	CCA	GCT	AGT	GTG	TCA	ACA	GTG	AAG	
1575	1584	1593	1602	1611	1620												
ACC	TGG	GGA	CAG	TTC	TGC	GTC	TCA	TTF	CTG	GAT	TCC	TAC	CCC	CTC	TTC	TAG	TCT
1629	1638	1647	1656	1665	1674												
TGC	CCA	AGT	ACT	CCT	GCC	AGG	CAC	ATG	CCC	CAT	T ^r TG	GCA	CAG	GCC	TGC	ATT	CTT
1683	1692	1701	1710	1719	1728												
GTC	GTC	CCG	TCC	TGG	GCC	TCA	GGC	TGT	CTG	GGA	GGG	GAG	ATG	CTC	ACA	TTT	GTA
1737	1746	1755	1764	1773	1782												
CAG	GCT	ACA	TAG	ACT	GGT	GCA	AGC	AGT	GCT	GGA	TTC	CAG	GAG	TCT	TGG	CAT	CTC
1791	1800	1809	1818	1827	1836												
ATA	GCT	TGT	CCC	CGT	GAG	GAG	TGA	GCA	GAG	GGT	CTG	GGA	TTT	CTG	CTT	TCA	GCA

FIGURE 1E

APPROVED BY DRAFTSMAN	O.G. FIG. CLASS SUBCLASS
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1845 1854 1863 1872 1881 1890
AAA GCA GTC TGA CTC AGT GGG CAG AAT GGA GGG GCC CCT CTA GCC AGG CTC TTA

1899 1908 1917 1926 1935 1944
CGC CAT GGT TAT GAG CAG GTT GAT GAG GGT CCT TCG GCC AGC ACA ACC TTC CTC

1953 1962 1971 1980 1989 1998
CCT ACT CAC GGC ATG GAG TCT GAC TGC ATG GAA GTT CCA GAT CCT GAC AGA GAG

2007 2016 2025 2034 2043 2052
AAC TGG GAA GGA TCC AGG TTC GCT TCC GTT GGT AGC TTG AGT CCC ATG CCT CCA

2061 2070 2079 2088 2097 2106
CCC TGC CAT CTG AGG AAG GGG TGA CAA GTG GTC AAG GAG CTG TGG CCA CAG ACT

2115 2124 2133 2142 2151 2160
TTT CCA GGG TGG TCC TTG GCA GGT GAG GTG CGT CTG TGC CAC CCT TGT CAG GAG

2169 2178 2187 2196 2205 2214
TCA TTG ACC ACG GGC CCC CCC TGG ACC CCC CGG GAC CTC AGA GTG GGG GCA GGC

2223 2232 2241 2250 2259 2268
AGA AGG GAG AAC CAG CTC AAG ACA TTT TGG AGG ATC TGG CCC TGG GGT TCT TCA

FIGURE 1F

APPROVED BY DRAFTSMAN	O.G. FIG. CLASS	SUBCLASS
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102290 " 282680

2277	2286	2295	2304	2313	2322
GAG AAC ACC CTC TAG GGG CTT TGG GGA CAT GGC CTG TCC CCA CAT CCA GCA CTT					
2331	2340	2349	2358	2367	2376
GCC TCC GCC ATG GTC ACT CGG CAG CCC TTT TCC CAG GAG AAG ACA CCT CTG GGA					
2385	2394	2403	2412	2421	2430
GCC TGC TCA GTG CTT GTC CTG CCA TCC TGT GTC CTG GGA CTG AGG GTT ACT CCA					
2439	2448	2457	2466	2475	2484
GTT GCT CTG TGT TGC ATA CTC TCC CCC GCA AGC CTG TGT ATG AAG AAT TGT CCC					
2493	2502	2511	2520	2529	2538
CTG GCT TCC AGC AGG CCA TGG CTG GCT GTT TTG TGA CTG TTA CAT TGT GCA GGG					
2547	2556	2565	2574		
GTA ATT ATT AGC GTG GCT TTT ACA CTT AAA AAA AAA A 3					

FIGURE 1G

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FIGURE 2A

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FIGURE 2B

107	D H D L I W F G D M N F R I E D F G L H F V R E S I K N R C Y G G L W E K D Q	638789
3	- - - - -	- - - - -
467	N H D V I L W L G D L N Y R I E E L D V E K V K K L I E E K D F Q M L Y A Y D Q	91399105
413	K H E V V I W L G D L N Y R L C M P D A N E V K S L I N K K D L Q R L L K F D Q	91019103
		91420920
147	L S I A K K H D P L L R E F Q E G R L L F P P T Y K F D R N S N D Y D T S E K K	638789
25	L N M A K N T W P I L K G F O E G P L N F A P T F K F D V G T N K Y D T S A K K	91399105
507	L K I Q V A A K T V F E G F T E G E L T F Q P T Y K Y D T G S D D W D T S E K C	91019103
453	L N I Q R T Q K K A F V D F N E G E I K F I P T Y K Y D S K T D R W D S S G K C	91420920
187	R K P A W T D R I L W R L K R O P C A G P D T P I P P A S H F S L S L R G Y S S	638789
65	R K P A W T D R I L W K V K - A P G G G P S P S G R K S H R L Q V T Q H S Y R S	91399105
547	R A P A W C D R I L W K G K -	91019103
493	R V P A W C D R I L W R G T -	91420920
227	H M T Y G I S D H K P V S G T F D L E L K P L V S A P L I V L M P E D L W T V -	638789
104	H M E Y T V S D H K P V A A Q F L L Q F A F R D D M P L V R L E V A D E W V R -	91399105
570	H M A L K T S D H K P V S S V F D I G V R V V N D E L Y R K T L E E I V R S L D	91019103
516	H M E L K T S D H K P V S A L F H I G V K V V D E R R Y R K V F E D S V R I M D	91420920
266	- E N D M M V S Y S S T S - D F P S S P W D W I G L Y K V G L R D V N D - -	638789
143	- P E Q A V Y R Y R M E T - V F A R S S W D W I G L Y R V G F R H C K D - -	91399105
610	K M E N A N I P S V S L S K R E F C F Q N V K Y M Q L K V E S F T I - H N G Q V	91019103
556	R M E N D F L P S L E L S R R E F V F E N V K F R Q L Q K G K F Q I S N N G Q V	91420920
300	- - - - - Y V S - - - - - Y - - A W V G - - - - - D S K V S C S D N	638789
177	- - - - - Y V A - - - - - Y - - V W A K - - - - - H E D V - - D G N	91399105
649	P C H F E F I N K P D E E S Y C K Q W L N A N P S R G F L L P D S D V E I D L E	91019103
596	P C H F S F I P K L N D S Q Y C K P W L R A E P F E G Y L E P N E T V D I S L D	91420920

FIGURE 2C

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FIGURE 2D

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FIGURE 2E

10 9 2 9 0 " 2 8 2 2 5 2 6 0

APPROVED	O.G. FIG.
BY	CLASS
DRAFTSMAN	SUBCLASS

Library	Lib Description	Abun	Pct	Abun
PANCISM01	pancreas, islet cells, NORM, WM	2	0.1907	
SCORNON01	spinal cord, 71 M, NORM	1	0.1379	
BSTMNOT01	brain stem, 72 M	1	0.1214	
MUSCNOM01	skeletal muscle, WM	2	0.0861	
THP1NOT01	THP-1 promonocyte cell line, untreated	1	0.0571	
SYNORAT01	synovium, elbow, rheumatoid, 51 F	1	0.0478	
NERVMSM01	multiple sclerosis, 46 M, NORM, WM	2	0.0448	
BRSTNOT03	breast, 54 F, match to BRSTTUT02	3	0.0441	
PENCNOT01	penis, corpus cavernosum, 53 M	1	0.0394	
COLNNOT09	colon, 60 M, match to COLNTUT16	1	0.0390	
PROSNOT20	prostate, 65 M, match to PROSTUT12	1	0.0336	
COLNOT13	colon, ascending, 28 M	1	0.0311	
BRAITUT08	brain tumor, astrocytoma, 47 M	2	0.0293	
SCORNNOT04	spinal cord, 32 M	1	0.0293	
LEUKNOT02	white blood cells, 45 F	1	0.0292	
COLNFET02	colon, fetal F	2	0.0286	
THYRTUT03	thyroid tumor, benign, 17 M	1	0.0276	
LNODNOT05	lymph nodes, 14 F	1	0.0271	
THP1AZS08	THP-1 promonocyte cell line, treated AZ, SUB	2	0.0269	
UTRSNOT08	uterus, endometrium, 35 F	1	0.0267	
HEAANOT01	heart, coronary artery, 46 M	1	0.0265	
HEAONOT03	heart, aorta, 27 F	1	0.0265	
BRAITUT13	brain tumor, meningioma, 68 M	1	0.0262	
COTRNNOT01	colon, transverse, Crohn's, 26 M	1	0.0260	

FIGURE 3A

APPROVED	O.G. FIG.
BY DRAFTSMAN	CLASS SUBCLASS

BONRFET01	rib, fetal M	1	0.0259
SINTFET03	small intestine, fetal F	2	0.0259
THYMN04	thymus, 3 M, NORM	1	0.0257
STOMFET01	stomach, fetal F	1	0.0255
TLYMN02	lymphocytes (non-adher PBMMC), M/F	1	0.0254
HEAON05	heart, aorta, 17 F	1	0.0252
UTRSUT04	uterine tumor, leiomyoma, 34 F	1	0.0250
LUNGUT13	lung tumor, adenocarcinoma, 47 M	1	0.0249
PONSAZT01	brain, pons, Alzheimer's, 74 M	1	0.0249
TMLR3DT02	lymphocytes (non-adher PBMMC), M/F, 72-hr MLR	1	0.0246
PROSN015	prostate, 66 M, match to PROSTUT10	1	0.0241
SINJN02	small intestine, jejunum, 8 F	1	0.0241
UCMCN02	mononuclear cells	1	0.0236
LIVSFEM03	liver/spleen, fetal M, NORM, WM	1	0.0214
BRSTN02	breast, F, NORM, WM	1	0.0206
BRSTTUT03	breast tumor, 58 F, match to BRSTNOT05	2	0.0197
COLNTUT03	colon tumor, 62 M, match to COLNNOT16	1	0.0196
THYMN02	thymus, 3 M	1	0.0194
HNT3AZT01	hNT2 cell line, teratocarcinoma, treated AZ	1	0.0191
NEUTLPT01	granulocytes, periph blood, M/F, treated LPS	1	0.0173
MUSCN07	muscle, forearm, 38 F	1	0.0154
COLNN011	colon, 60 M, match to COLNTUT16	1	0.0149
NGANN01	ganglioneuroma, 9 M	2	0.0146
PROSTUT05	prostate tumor, 69 M, match to PROSNOT07	1	0.0145
THYRN03	thyroid tumor, adenoma, 28 F	1	0.0138
SPLNN04	spleen, 2 M	1	0.0128

FIGURE 3B

APPROVED	O.G. FIG.
BY	CLASS
DRAFTSMAN	SUBCLASS

KIDNNOT05	kidney, neonatal F	1	0.0106
EOSIHET02	eosinophils, hypereosinophilia, 48 M	1	0.0105
OVARTUT01	ovarian tumor, 43 F, match to OVARNOT03	1	0.0103
UTRPNOM01	uterus, F, NORM, WM	1	0.0101
MELANOM01	melanocytes, M, NORM, WM	1	0.0096
BRSTTUT01	breast tumor, 55 F, match to BRSTNOT02	1	0.0095
BRAINOM01	brain, infant F, NORM, WM	2	0.0089
CARDFEM01	heart, fetal, NORM, WM	1	0.0082
UTRSNOT02	uterus, 34 F	1	0.0078
LUNGFET03	lung, fetal F	1	0.0069
PLACNOM02	placenta, neonatal F, NORM, WM	1	0.0056
LIVSFEM02	liver/spleen, fetal M, NORM, WM	2	0.0053

FIGURE 3C